Application No.: 10/583,467   Docket No.: JCLA21175

AMENDMENT

In The Claims:

Please amend the claims as follows:

Claim 1. (currently amended) A weight-training machine having an independent power generating function, which includes a plurality of stacks moving up and down by means of a pair of guides mounted vertically, a button unit disposed at a front center of the stacks and having the number of solenoid buttons corresponding to the number of the stacks and buttons inserted into insert holes of the stacks, and a wire guided by pulleys mounted to a frame,

wherein a solenoid unit [[(600)]] having the solenoid buttons [[(610)]] is separated from the button unit so that the solenoid buttons [[(610)]] are installed to a position adjacent to heads of the buttons [[(230)]], wherein the buttons [[(230)]] are moved forward and backward electrically or manually, wherein a pair of generators [[(250)]] having a rod shape are installed at both rear sides of the stacks [[(240)]] so as to be parallel to each other vertically with a predetermined distance, and wherein a power supply [[(260)]] is installed below the generators [[(250)]] so that the power supply [[(260)]] is electrically connected to the generators [[(250)]] and the solenoid unit [[(600)]].

Claim 2. (currently amended) The weight-training machine according to claim 1, wherein the generator [[(250)]] includes a pipe [[(251)]] having a coil [[(251a)]] wound in contact with an inner side thereof, and a magnetic rod [[(252)]] combined to be movable in a length direction along inside of the coil [[(251a)]] and composed of a plurality of permanent magnets [[(252a)]]

Page 2 of 11

so that positive and negative poles are alternately laminated, whereby the generator [[(250)]] generates power by means of movement of the permanent magnets [[(252a)]] when reciprocating in the coil [[(251a)]] in a length direction along a selected stack [[(240)]].

Claim 3. (currently amended) The weight-training machine according to claim 1, wherein the power supply [[(260)]] includes a converting switch [[(261)]] provided with electric power selectively from the generators [[(250)]] and an external power source [[(510)]], an inverter [[(262)]] for converting AC supplied from the converting switch [[(261)]] into DC, and a charger [[(263)]] for charging the supplied DC.

Claim 4. (currently amended) The weight-training machine according to claim 1, wherein a generator [[(250a)]] is further installed to one of the pulleys [[(113)]].

Claim 5. (currently amended) The weight-training machine according to claim 1, wherein a sensor [[(611)]] for sensing operation of the solenoid button [[(610)]] is mounted to the solenoid unit [[(600)]], wherein a sensor [[(311a)]] is installed to a controller [[(310)]] to operate a selected solenoid button [[(610)]] so that the button [[(230)]] is inserted into an insert groove [[(240a)]] of the stack [[(240)]], wherein the sensor [[(611)]] senses manual operation of the solenoid button [[(610)]] to make the controller [[(310)]] display a current exercising weight, wherein the sensor [[(311a)]] senses a user to be in an exercising position so that the controller

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[[(310)]] is operated when the user is in the exercising position and the power is automatically isolated when the user takes off from the exercising position.

Claim 6. (currently amended) A weight-training machine having an independent power generating function, which [[a stack is]] a plurality of stacks are mounted to a main body to be supported by guides and movable up and down by means of a wire, and the wire is guided by pulleys mounted to the main body so that an action point is adjusted by a weight adjustment device to control a load,

wherein the stacks are [[stack is]] uniformly divided vertically [[into several parts]], wherein an insert groove [[(240a)]] is formed at a lower center of a front surface of each part of the divided stack, wherein a fixing plate [[(220b)]] capable of moving forward and backward is inserted into the insert groove [[(240a)]] by a solenoid button [[(610)]] and a button [[(230)]] working together with the solenoid button [[(610)]] to select a weight, wherein a generator [[(250a)]] is installed to a frame at a position below the weight adjustment device so as to generate power by the wire passing via a moving device of the weight adjustment device.

Claim 7. (currently amended) A stack for a weight-training machine having a weight adjustment device in which [[the]]a number of buttons corresponding to [[the]]a number of stacks [[is]]are installed at a front center of the stacks, and in which a fixing plate is moved forward or backward by automatic or manual operation of the buttons so that the fixing plate is inserted into or taken out of [[the]]an insert groove,

Page 4 of 11

wherein [[a weight adjustment device insert groove (240k)]]an insert recess is formed at a front center of the stack [[(240)]] so that the weight adjustment device [[(200)]] is inserted therein, wherein the fixing plate [[(220b)]] has a rectangular plate shape, wherein the insert groove [[(240a)]] is formed at a lower center of a side that forms a front surface of the [[weight adjustment device insert groove (240k)]]insert recess so that the fixing plate [[(220b)]] is inserted therein.

Claim 8. (currently amended) The weight-training machine according to claim 3,

wherein a sensor [[(611)]] for sensing operation of the solenoid button [[(610)]] is mounted to the solenoid unit [[(600)]], wherein a sensor [[(311a)]] is installed to a controller [[(310)]] to operate a selected solenoid button [[(610)]] so that the button [[(230)]] is inserted into an insert groove [[(240a)]] of the stack [[(240)]], wherein the sensor [[(611)]] senses manual operation of the solenoid button [[(610)]] to make the controller [[(310)]] display a current exercising weight, wherein the sensor [[(311a)]] senses a user to be in an exercising position so that the controller [[(310)]] is operated when the user is in the exercising position and the power is automatically isolated when the user takes off from the exercising position.